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Calculation of Sample Sizes from Federal Trade Commission  
Market Sample #1

The "FTC Tar" standard deviations of 59 cigaret brands were calculated from tolerances listed by the Federal Trade Commission in their report on market sample #1 (November 22, 1967), see attached table. Approximately 95% of the standard deviations are less than or equal to 2.9 mg/port. A sample size of 673 cigarets per brand would justify reporting 95% of the brands tested to the nearest milligram. A frequency table of TITL FTC tar standard deviations is included for comparison with the Federal Trade Commission.

The table shows large standard deviations apparently due to mixed sampling or other factors. Considering all standard deviations over 2.1 mg/port as outliers, a sample size of approximately 300 cigarets per brand would justify reporting 95% of the brands tested to the nearest milligram.

/hj

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Sample Room



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